

Barb

2001

Access DB# \_\_\_\_\_

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: P. Spivack K Examiner #: 70400 Date: 11/14/03  
 Art Unit: 1614 Phone Number 30 84703 Serial Number: 091995277  
 Mail Box and Bldg/Room Location: 2D05 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention:

Fc Receptor Modulators

Inventors (please provide full names):

Jonathan B. BaellThomas P. J. Garrett

Earliest Priority Filing Date:

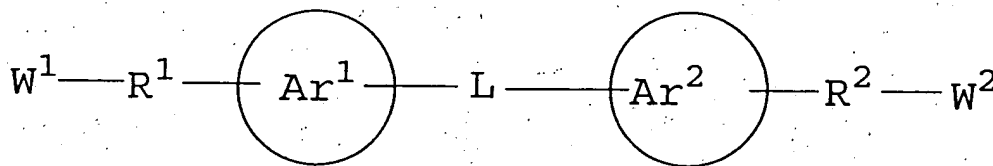
9/11/98

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search

a compound having the formula

Point of Contact:  
Barb O'Bryen  
Technical Information Specialist:  
STIC CM1 6A05 308-429



or salts thereof,

wherein

$W^1$  and  $W^2$  are independently  $\text{CO}_2\text{R}^3$ ,  $\text{C}(\text{=NH})\text{NH}(\text{OH})$ ,  $\text{PO}(\text{OR}^3)_2$  or  $\text{C}(\text{=O})\text{CF}_3$ ,

and at least one of  $W^1$  and  $W^2$  is  $\text{CO}_2\text{R}^3$ ;

each of  $R^1$  and  $R^2$  is a bond,  $\text{CH}_2$  or  $\text{C}_1\text{-C}_6$  alkylene;

each of  $\text{Ar}^1$  and  $\text{Ar}^2$  is independently a  $\text{C}_5\text{-C}_{20}$  aryl; (not heteroaryl)

$L$  is a linker selected from the group consisting of a methoxy,  $\text{C}_2\text{-C}_{20}$  alkoxy, and

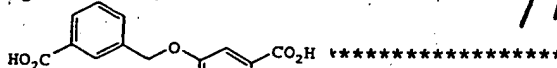
$\text{C}_6\text{-C}_{20}$  aryl; and,

$R^3$  is hydrogen or  $\text{C}_1\text{-C}_6$  alkyl,

to inhibit  $\text{Fc}$  receptor binding of immunoglobulin

util = 3-[(m-carboxyphenyl)methoxy]benzoic acid:

$\text{C}_{15}\text{H}_{10}\text{O}_5$



STAFF USE ONLY

Thanks



=> fil reg; d stat que 119; fil hcapl; d que nos 124

~~FILE REGISTRY~~ ENTERED AT 12:23:12 ON 15 JAN 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1

DICTIONARY FILE UPDATES: 14 JAN 2003 HIGHEST RN 479024-64-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

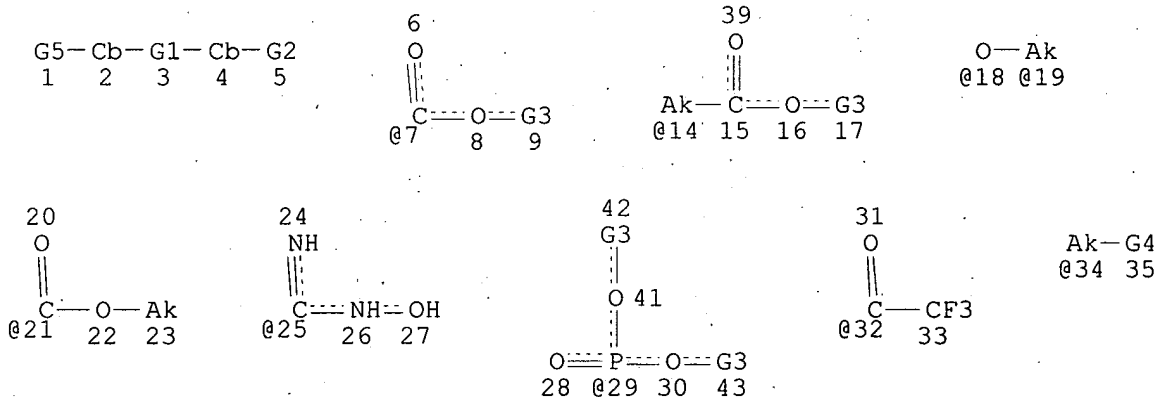
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L3

STR



Ak @40

*Cb = carbocycle*  
*Cy = any cyclic group*

VAR G1=18-2 19-4/18-4 19-2/CY

VAR G2=21/COOH/25/29/32/34

VAR G3=H/40

VAR G4=21/COOH/25/29/32

VAR G5=7/14

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 19

CONNECT IS E1 RC AT 23

CONNECT IS E2 RC AT 34

CONNECT IS E1 RC AT 40

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS X6 C AT 34

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI  
L9 SEL L8 1- RN : 17052 TERMS  
L10 17024 SEA FILE=REGISTRY ABB=ON L9  
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT  
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT  
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13  
L15 SEL L14 1- RN : 29472 TERMS  
L16 30102 SEA FILE=REGISTRY ABB=ON L15  
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16  
~~L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3~~

100.0% PROCESSED 6227 ITERATIONS  
SEARCH TIME: 00.00.02

1 ANSWERSFILE "HCAPLUS" ENTERED AT 12:23:12 ON 15 JAN 2003

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FILE COVERS 1907 - 15 Jan 2003 VOL 138 ISS 3

FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)

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L3 STR  
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI  
L9 SEL L8 1- RN : 17052 TERMS  
L10 17024 SEA FILE=REGISTRY ABB=ON L9  
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT  
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT  
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13  
L15 SEL L14 1- RN : 29472 TERMS  
L16 30102 SEA FILE=REGISTRY ABB=ON L15  
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16  
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3  
L23 313 SEA FILE=HCAPLUS ABB=ON L19  
~~L24 1 SEA FILE=HCAPLUS ABB=ON (L8 OR L12 OR L13) AND L23~~

=> ~~d ibib abs hitstr l24;~~ fil uspatf; d que nos l28; fil cao; d que nos l22

L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2000:264540 HCAPLUS

DOCUMENT NUMBER: 133:219144  
TITLE: Recognition of porphyrin or protein using peptides derived from antibody CDR  
AUTHOR(S): Takahashi, Mizuki; Ueno, Akihiko; Mihara, Hisakazu  
CORPORATE SOURCE: Department of Bioengineering, Tokyo Institute of Technology, Faculty of Bioscience and Biotechnology, Yokohama, 226-8501, Japan  
SOURCE: Peptide Science (1999), 36th, 395-396  
CODEN: PSCIFQ; ISSN: 1344-7661  
PUBLISHER: Japanese Peptide Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB We have utilized sequential information from antibody CDR to develop peptides with a targeted affinity. The porphyrin or IgE-binding peptides were designed and synthesized based on an anti-heme or an anti-IgE monoclonal antibody. Their binding affinities were examd. by the spectroscopic measurements and binding properties according to the peptide sequence and/or conformation were revealed.

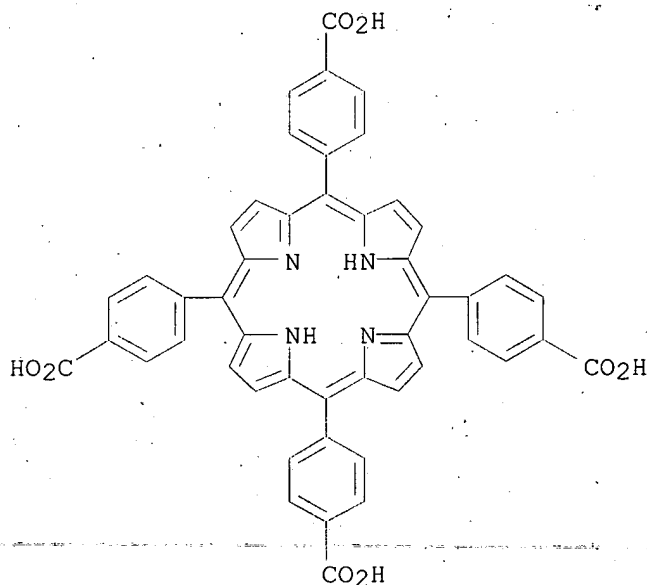
IT 14609-54-2, TCP

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(recognition of porphyrin or protein using peptides derived from antibody CDR)

RN 14609-54-2 HCAPLUS

CN Benzoic acid, 4,4',4'',4'''-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FILE USPATFULL ENTERED AT 12:23:28 ON 15 JAN 2003  
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Jan 2003 (20030114/PD)  
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)  
HIGHEST GRANTED PATENT NUMBER: US6507953  
HIGHEST APPLICATION PUBLICATION NUMBER: US2003009812

CA INDEXING IS CURRENT THROUGH 14 Jan 2003 (20030114/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Jan 2003 (20030114/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2002  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<  
>>> original, i.e., the earliest published granted patents or <<<  
>>> applications. USPAT2 contains full text of the latest US <<<  
>>> publications, starting in 2001, for the inventions covered in <<<  
>>> USPATFULL. A USPATFULL record contains not only the original <<<  
>>> published document but also a list of any subsequent <<<  
>>> publications. The publication number, patent kind code, and <<<  
>>> publication date for all the US publications for an invention <<<  
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<  
>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<  
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substance identification.

L3 STR  
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI  
L9 SEL L8 1- RN : 17052 TERMS  
L10 17024 SEA FILE=REGISTRY ABB=ON L9  
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT  
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT  
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13  
L15 SEL L14 1- RN : 29472 TERMS  
L16 30102 SEA FILE=REGISTRY ABB=ON L15  
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16  
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3  
L21 37 SEA FILE=USPATFULL ABB=ON L19  
L25 26275 SEA FILE=USPATFULL ABB=ON RECEPTOR#/IT, TI, AB, CLM  
L26 4484 SEA FILE=USPATFULL ABB=ON FC#/IT, TI, AB, CLM  
L27 9347 SEA FILE=USPATFULL ABB=ON (IMMUNOGLOBULIN# OR IG#)/IT, TI, AB, CL  
M

~~L28 0 SEA FILE=USPATFULL ABB=ON L21 AND (L25 OR L26 OR L27)~~

FILE 'CAOLD' ENTERED AT 12:23:28 ON 15 JAN 2003

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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assignees, and patent information, e.g., patent numbers, are  
now searchable from 1907-1966. TIFF images of CA abstracts  
printed between 1907-1966 are available in the PAGE  
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L3 STR  
L8 6831 SEA FILE=HCAPLUS ABB=ON FC#(L)RECEPTOR#/OBI  
L9 SEL L8 1- RN : 17052 TERMS  
L10 17024 SEA FILE=REGISTRY ABB=ON L9  
L12 6455 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+OLD/CT  
L13 7664 SEA FILE=HCAPLUS ABB=ON IMMUNOGLOBULIN RECEPTORS+NT/CT  
L14 8765 SEA FILE=HCAPLUS ABB=ON L12 OR L13  
L15 SEL L14 1- RN : 29472 TERMS  
L16 30102 SEA FILE=REGISTRY ABB=ON L15  
L17 38354 SEA FILE=REGISTRY ABB=ON L10 OR L16  
L19 1 SEA FILE=REGISTRY SUB=L17 SSS FUL L3  
~~L22 0 SEA FILE=CAOLD ABB=ON L19~~

## 2 ANSWERS

Searched by Barb O'Bryen, STIC 308-4291



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FILE COVERS 1907 - 15 Jan 2003 VOL 138 ISS 3  
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L37 STR  
L39 SCR 1297  
L41 2 SEA FILE=REGISTRY SSS FUL L37 AND L39  
~~L42 1 SEA FILE=CAPLUS ABB=ON L41~~

FILE 'USPATFULL' ENTERED AT 12:23:59 ON 15 JAN 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Jan 2003 (20030114/PD)  
FILE LAST UPDATED: 14 Jan 2003 (20030114/ED)  
HIGHEST GRANTED PATENT NUMBER: US6507953  
HIGHEST APPLICATION PUBLICATION NUMBER: US2003009812  
CA INDEXING IS CURRENT THROUGH 14 Jan 2003 (20030114/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Jan 2003 (20030114/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2002  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2002

>>> USPAT2 is now available. USPATFULL contains full text of the <<<  
>>> original, i.e., the earliest published granted patents or <<<  
>>> applications. USPAT2 contains full text of the latest US <<<  
>>> publications, starting in 2001, for the inventions covered in <<<  
>>> USPATFULL. A USPATFULL record contains not only the original <<<  
>>> published document but also a list of any subsequent <<<  
>>> publications. The publication number, patent kind code, and <<<  
>>> publication date for all the US publications for an invention <<<  
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<  
>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

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>>> through the new cluster USPATALL. Type FILE USPATALL to <<<  
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>>> <<<  
>>> Use USPATALL when searching terms such as patent assignees, <<<  
>>> classifications, or claims, that may potentially change from <<<  
>>> the earliest to the latest publication. <<<

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L37 STR  
L39 SCR 1297  
L41 2 SEA FILE=REGISTRY SSS FUL L37 AND L39  
~~L43 1 SEA FILE=USPATFULL ABB=ON L41~~

~~=> dup rem 142, 143~~

FILE 'CAPLUS' ENTERED AT 12:24:04 ON 15 JAN 2003  
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 PROCESSING COMPLETED FOR L42  
 PROCESSING COMPLETED FOR L43

~~L45 2 DUP REM L42 L43 (0 DUPLICATES REMOVED)~~

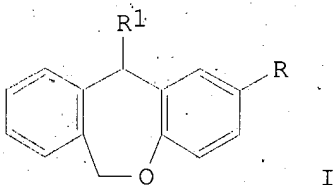
ANSWER '1' FROM FILE CAPLUS

ANSWER '2' FROM FILE USPATFULL

~~=> d bib abs hitstr 1-2; fil cao; d que nos 144; fil hom~~

L45 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1985:203881 CAPLUS  
 DOCUMENT NUMBER: 102:203881  
 TITLE: Dibenz[b,e]oxepin derivatives  
 INVENTOR(S): Takizawa, Hiroshi; Oiji, Yoshimasa; Ohmori, Kenji;  
 Shuto, Katsuichi  
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 39 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 130555	A2	19850109	EP 1984-107410	19840628
EP 130555	A3	19870902		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 60028972	A2	19850214	JP 1983-118009	19830629
JP 02025911	B4	19900606		
US-4596804	A	19860624	US 1984-625000	19840626
CA 1225090	A1	19870804	CA 1984-457545	19840627
PRIORITY APPLN. INFO.:			JP 1983-118009	19830629
OTHER SOURCE(S):	CASREACT 102:203881			
GI				



AB Dibenzoxepins I [R = cyano, 5-tetrazolyl; CONH2, CO2H, alkoxycarbonyl, CO2CHMeOCO2Et; R1 = 4-alkylpiperazino, 3-quinuclidinylamino, X(CH2)nNR2R3; R2, R3 = alkyl; X = NH, O, S; n = 2, 3] were prepd. Thus, 4-HOC6H4CO2Et was treated with NaH and 2-(BrCH2)C6H4CO2Et to give 4-EtO2CC6H4OCH2C6H4CO2Et-2 which was sapond. by NaOH in aq. MeOH to give 83.3% dicarboxylic acid. This diacid was cyclized in sulfolane with polyphosphoric acid to give 62.9% 6,11-dihydro-11-oxodibenz[b,e]oxepin-2-carboxylic acid which was quant. converted to the Et ester via the acid chloride. The Et ester was reduced with NaBH4 to give 94.7% I (R = CO2Et,

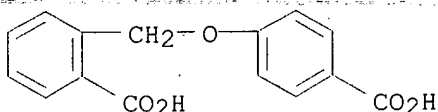
R1 = OH), which was chlorinated with SOCl<sub>2</sub> to give 100% I (R = CO<sub>2</sub>Et, R1 = Cl). The latter compd. was treated with HOCH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub> to give 53.1% I (R = CO<sub>2</sub>Et, R1 = OCH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub>), which had antiallergy activity in the 48-h homologous passive cutaneous anaphylaxis test in rats with a min. ED of 1 mg/kg orally.

IT 96335-22-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and cyclization of)

RN 96335-22-7 CAPLUS

CN Benzoic acid, 2-[(4-carboxyphenoxy)methyl]- (9CI) (CA INDEX NAME)



L45 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 86:36903 USPATFULL

TITLE: Dibenz[b,e]oxepin compounds

INVENTOR(S): Takizawa, Hiroshi, Tokyo, Japan  
Oiji, Yoshimasa, Shizuoka, Japan  
Ohmori, Kenji, Mishima, Japan  
Shuto, Katsuichi, Shizuoka, Japan

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4596804		19860624
APPLICATION INFO.:	US 1984-625000		19840626 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1983-118009	19830629
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Hollrah, Glennon H.	
ASSISTANT EXAMINER:	Turnipseed, James H.	
LEGAL REPRESENTATIVE:	Antonelli, Terry & Wands	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1,11	
LINE COUNT:	784	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

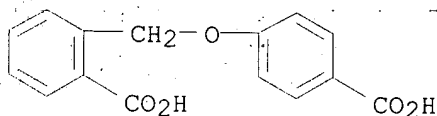
AB. A dibenz[b,e]oxepin compound having an antiallergic activity is represented by the following general formula: ##STR1## wherein R.sub.1 represents a cyano group, a 5-tetrazolyl group, a carbamoyl group or --CO.sub.2 R.sub.3 wherein R.sub.3 represents a hydrogen atom, an alkyl group having 1 to 5 carbon atoms or a 1-(ethoxycarbonyloxy)ethyl group, and R.sub.2 represents a 4-alkylpiperazino group wherein the alkyl group has 1 to 5 carbon atoms, a 3-quinuclidinylamino group or --X--(CH.sub.2).sub.n --NR.sub.4 R.sub.5 wherein X represents --NH-- , --S -- or --O--, R.sub.4 and R.sub.5 are same or different and each represents an alkyl group having 1 to 5 carbon atoms and n represents 2 or 3; and the pharmaceutically acceptable acid addition salts or metal salts thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 96335-22-7P

(prepn. and cyclization of)

RN 96335-22-7 USPATFULL  
CN Benzoic acid, 2-[(4-carboxyphenoxy)methyl]- (9CI) (CA INDEX NAME)



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FILE COVERS 1907-1966

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L37 STR  
L39 SCR 1297  
L41 2 SEA FILE=REGISTRY SSS FUL L37 AND L39  
~~L44 0 SEA FILE=CAOLD ABB=ON L41~~

FILE 'HOME' ENTERED AT 12:24:19 ON 15 JAN 2003